Applies To: **1998–02 Accord** – ALL
2000–06 Insight – ALL
1998–04 Odyssey – ALL
2003–04 Pilot – ALL
2000–05 S2000 – ALL

July 3, 2007

Immobilizer System (Type 2)

(Supersedes 00-049, dated April 29, 2003, to update the information marked by the black bars.)

All 1998–02 Accords, 2000–06 Insights, 1998–04 Odysseys, 2003–04 Pilots, and 2000–05 S2000s have a Type 2 immobilizer system that disables the vehicle unless a programmed ignition key is used. A programmed ignition key is a transponder-type key that has been cut to fit the ignition switch and is recognized by the immobilizer system. If you try to start the engine without a programmed ignition key, the engine cranks, but it will not start.

NOTE: 2004 Pilots will start, run for approximately 2 seconds, and then the engine will shut off. This distinguishes an immobilizer problem from other starting problems.

This service bulletin covers these subjects:

- Immobilizer system components
- Adding programmed ignition keys
- Replacing all programmed ignition keys
- Clearing transponder codes of lost programmed ignition keys
- Starting the engine without a programmed ignition key
- Replacing the ECM/PCM

It also has a customer situation and required items chart.

You can find more information about the immobilizer system in the Body Electrical section of the appropriate service manual.

WARRANTY CLAIM INFORMATION

None. This service bulletin is for information only.

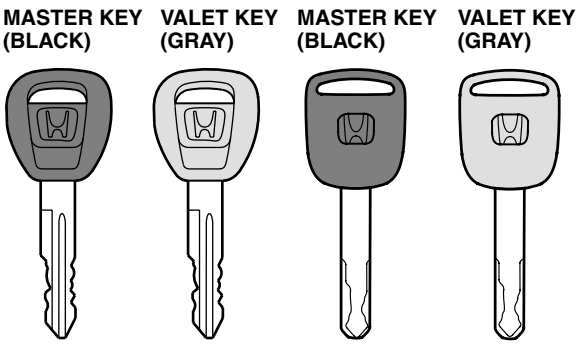
IMMOBILIZER SYSTEM COMPONENTS

The immobilizer system includes these components:

- Immobilizer system keys (two master keys and one valet key at new vehicle delivery)
- Immobilizer system indicator
- Immobilizer receiver
- ECM/PCM

Immobilizer System Keys

The vehicle comes with two master keys (black grip) and one valet key (gray grip).



SIDEWINDER-TYPE KEYS

Each master and valet key has a transponder in its grip that outputs an ID code when you insert the key into the ignition switch and turn it to ON (II). The immobilizer system uses this ID code to determine whether to start the engine. There are no batteries or other serviceable parts inside the keys.

The master and valet keys for 2003–04 Odyssey, 2003–04 Pilot, and 2003–05 S2000 models are sidewinder-type keys and require a special key cutting machine. Refer to the special tools catalog for available key cutting machines.

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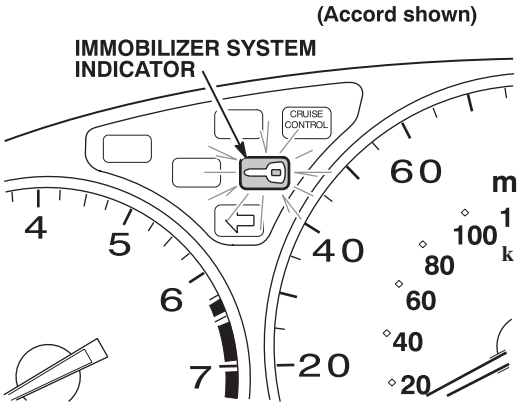
Skill Level R REPAIR

CUSTOMER INFORMATION: The information in this bulletin is intended for use only by skilled technicians who have the proper tools, equipment, and training to correctly and safely maintain your vehicle. These procedures should not be attempted by "do-it-yourselfers," and you should not assume this bulletin applies to your vehicle, or that your vehicle has the condition described. To determine whether this information applies, contact an authorized Honda automobile dealer.

Immobilizer System Indicator

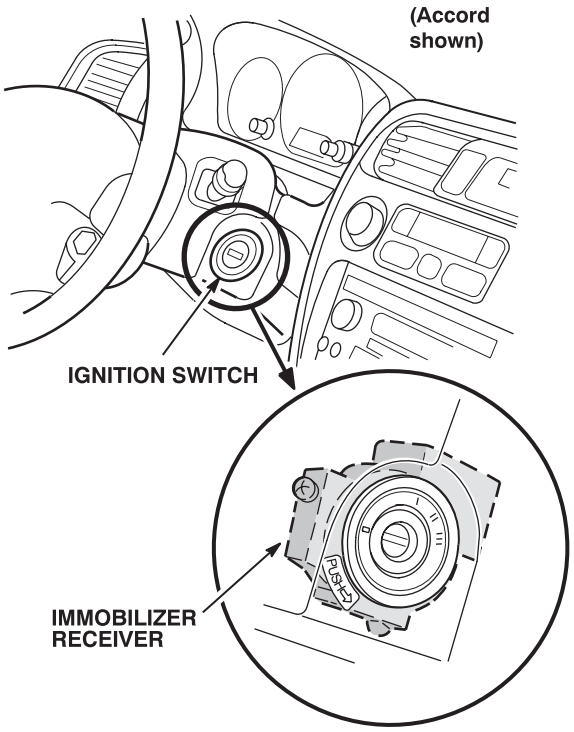
The immobilizer system indicator is on the instrument panel. If you insert a programmed ignition key (master or valet) into the ignition switch and turn the switch to ON (II), the indicator comes on for **2 seconds** and then goes off. When you turn the ignition switch to LOCK (0), the indicator blinks for **5 seconds** and then goes off.



If you insert a nonprogrammed ignition key into the ignition switch and turn the switch to ON (II), the indicator comes on for **2 seconds** and *then starts to blink*. The indicator keeps blinking until you turn the switch to LOCK (0). If you try to start the engine with a nonprogrammed ignition key, the engine cranks, but it will not start.

Immobilizer Receiver

The immobilizer receiver is inside the bezel around the ignition switch. It uses electromagnetic induction to power the transponder in the key. There is no direct electrical connection. Once the transponder is powered up, the key sends its ID code to the receiver, which then sends the code to the ECM/PCM. The immobilizer receiver contains no logic circuitry; it does not need to be rewritten when replaced.



ECM/PCM

The ECM/PCM is an integral part of the immobilizer system. It contains the immobilizer system logic. When the ECM/PCM receives the transponder ID code from the immobilizer receiver, it checks that code against the codes stored in its memory. If the code matches, the ECM/PCM enables the fuel system so the engine can start.

ADDING PROGRAMMED IGNITION KEYS

The vehicle originally comes with three programmed ignition keys. The ECM/PCM accepts a total of six transponder codes, so three more codes can be added to its memory. Use the procedures below to add a key or to add multiple keys.

Ilco Immobilizer Key Code Duplicator
(Preferred Method)

If your customer wants an additional ignition key(s), use the Ilco Immobilizer Key Code Duplicator with Ilco programmable key blanks (look for a **T5** stamped on the shank or molded into the grip). The key code duplicator offers a low-cost, quick, and convenient way to make a duplicate key from a programmed ignition key. Refer to S/B 99-053, *Ilco Immobilizer Key Code Duplicator*, for details.

HDS
(Alternate Method)

If the key code duplicator is not available, use the Honda Diagnostic System (HDS) with Honda key blanks. The HDS programs (rewrites) the ECM/PCM, storing the transponder code of the new key(s) in the memory of the ECM/PCM.

Adding Keys for the 1998–99 Accord and 1998 Odyssey

Preparation

To add a key with the HDS, you need these items:

- Immobilizer key blank (master or valet)
  (Refer to the parts catalog for the P/N, and search by VIN for the correct blanks.)
- *All* of your customer's programmed ignition keys (master, valet, T5) for the vehicle.
- Key code for the vehicle (if cutting by code)
- Suitable key cutter
- HDS with the latest software

  NOTE: Make sure the setup and time are correct before you use the HDS. Select the **F12** key in the upper right corner to get the **Set-up Details** screen. Make sure **Market:** is set to **USA**. Select the time display in the lower right corner to get the **Date/Time Properties** pop-up window. Make sure the date and time are correct. For details, refer to the **Honda Diagnostic System (HDS) Setup Instructions** listed under **Tool Information** in ISIS.
- 1st Password (Get this five-digit code from the *i*N Immobilizer Code Inquiry.)

Procedure

1. Use an appropriate key blank and a suitable key cutter to cut a new ignition key. Refer to the special tools catalog for available key cutters.
2. Gather up *all* of your customer's programmed ignition keys (master and valet) for the vehicle. Set aside any T5 keys.
3. Stick a small piece of masking tape to the grip of each programmed ignition key and each new key. Starting with the programmed ignition keys, mark them as **A**, **B**, **C**, etc. (The ECM/PCM stores a maximum of six transponder codes.)
4. Connect the HDS to the 16P data link connector (DLC).
5. Insert key **A** into the ignition switch, and turn the switch to ON (II). Turn on the HDS.
6. At the screen prompts, enter the VIN and the odometer reading, then verify the correct date and time.
7. From the **System Selection Menu** screen, select **IMMOBI**.
8. From the **Mode Menu** screen, select **Immobilizer Setup**.
9. From the **Immobilizer Test Mode Menu** screen, select **Add and Delete Keys**.
10. From the **Add and Delete Keys** screen, select **Add Multiple Keys**.
11. From the **Add Multiple Keys** screen, select **Begin to add multiple keys**.
12. From the **1st Password** screen, enter the 1st Password, then follow the screen prompts. When you are finished, turn the ignition switch to LOCK (0), then turn off and disconnect the HDS.
13. *T5 keys only:* Start the engine with each of the T5 keys you set aside in step 2.
    - If all of the T5 keys start the engine, the transponder codes are already recognized by the ECM/PCM and the immobilizer procedure is complete.
    - If any of the T5 keys do not start the engine, go to step 14.
14. The HDS accepts only one key of a certain transponder code. If the total number of nonprogrammed T5 keys *plus* the keys you entered is greater than six, use the key code duplicator to recode the additional T5 keys to match an existing transponder code.

    NOTE: The HDS shows you the number of transponder codes stored in the memory of the ECM/PCM. If any of the keys share the same transponder code (as might be the case with a T5 key), the number of codes shown may be fewer than the actual number of keys.

Adding One Key for 2000–02 Accord, 1999–04 Odyssey, 2003–04 Pilot, 2000–05 S2000, and 2000–06 Insight

NOTE: These models have an enhanced immobilizer system. You can add one ignition key with the HDS using just *one* programmed ignition key. For adding multiple ignition keys, you need *all* of your customer's programmed ignition keys (master and valet) for the vehicle, including any T5 keys.

Preparation

To add one key with the HDS, you need these items:

- Immobilizer key blank (master or valet) (Refer to the parts catalog for the P/N, and search by VIN for the correct blanks.)
- *One* programmed ignition key (master, valet, T5) for the vehicle
- Key code for the vehicle (if cutting by code)
- Suitable key cutter

  NOTE: For 2003–04 Odyssey, 2003–04 Pilot, and 2003–05 S2000 models, you must use the MATRIX H Key Cutting Machine.
- HDS with the latest software

  NOTE: Make sure the setup and time are correct before you use the HDS. Select the **F12** key in the upper right corner to get the **Set-up Details** screen. Make sure **Market:** is set to **USA**. Select the time display in the lower right corner to get the **Date/Time Properties** pop-up window. Make sure the date and time are correct. For details, refer to the **Honda Diagnostic System (HDS) Setup Instructions** listed under **Tool Information** in ISIS.
- 1st Password (Get this five-digit code from the iN Immobilizer Code Inquiry.)

Procedure

1. Use an appropriate key blank and suitable key cutter to cut a new ignition key. Refer to the special tools catalog for available key cutters.
2. Connect the HDS to the 16P data link connector (DLC).
3. Insert the programmed ignition key into the ignition switch, and turn the switch to ON (II). Turn on the HDS.
4. At the screen prompts, enter the VIN and the odometer reading, then verify the correct date and time.
5. From the **System Selection Menu** screen, select **IMMOBI**.
6. From the **Mode Menu** screen, select **Immobilizer Setup**.
7. From the **Immobilizer Test Mode Menu** screen, select **Add and Delete Keys**.
8. From the **Add and Delete Keys** screen, select **Add 1 Key**.
9. From the **Add 1 Key** screen, select **Begin to add 1 key**.
10. From the **1st Password** screen, enter the 1st Password, then follow the screen prompts. When you are finished, turn the ignition switch to LOCK (0), then turn off and disconnect the HDS.

Adding Multiple Keys for 2000–02 Accord, 1999–04 Odyssey, 2003–04 Pilot, 2000–05 S2000, and 2000–06 Insight

Preparation

To add multiple keys with the HDS, you need these items:

- Immobilizer key blank (master or valet) (Refer to the parts catalog for the P/N, and search by VIN for the correct blanks.)
- *All* of your customer's programmed ignition keys (master, valet, T5) for the vehicle
- Key code for the vehicle (if cutting by code)
- Suitable key cutter
- HDS with the latest software

  NOTE: Make sure the setup and time are correct before you use the HDS. Select the **F12** key in the upper right corner to get the **Set-up Details** screen. Make sure **Market:** is set to **USA**. Select the time display in the lower right corner to get the **Date/Time Properties** pop-up window. Make sure the date and time are correct. For details, refer to the **Honda Diagnostic System (HDS) Setup Instructions** listed under **Tool Information** in ISIS.
- 1st Password (Get this five-digit code from the iN Immobilizer Code Inquiry.)

Procedure

1. Use appropriate key blanks and a suitable key cutter to cut new ignition keys. Refer to the special tools catalog for available key cutters.
2. Gather up *all* of your customer's programmed ignition keys (master and valet) for the vehicle. Set aside any T5 keys.
3. Stick a small piece of masking tape to the grip of each programmed ignition key and each new key. Starting with the programmed ignition keys, mark them as **A**, **B**, **C**, etc. (The ECM/PCM stores a maximum of six transponder codes.)
4. Connect the HDS to the 16P data link connector (DLC).
5. Insert key **A** into the ignition switch, and turn the switch to ON (II). Turn on the HDS.
6. At the screen prompts, enter the VIN and the odometer reading, then verify the correct date and time.
7. From the **System Selection Menu** screen, select **IMMOBI**.
8. From the **Mode Menu** screen, select **Immobilizer Setup**.

9. From the **Immobilizer Test Mode Menu** screen, select **Add and Delete Keys**.
10. From the **Add and Delete Keys** screen, select **Add Multiple Keys**.
11. From the **Add Multiple Keys** screen, select **Begin to add multiple keys**.
12. From the **1st Password** screen, enter the 1st Password, then follow the screen prompts. When you are finished, turn the ignition switch to LOCK (0), then turn off and disconnect the HDS.
13. *T5 keys only:* Start the engine with each of the T5 keys you set aside in step 2.
    - If all of the T5 keys start the engine, the transponder codes are already recognized by the ECM/PCM and the immobilizer procedure is complete.
    - If any of the T5 keys do not start the engine, go to step 14.
14. The HDS accepts only one key of a certain transponder code. If the total number of nonprogrammed T5 keys *plus* the keys you entered is greater than six, use the key code duplicator to recode the additional T5 keys to match an existing transponder code.

    NOTE: The HDS shows you the number of transponder codes stored in the memory of the ECM/PCM. If any of the keys share the same transponder code (as might be the case with a T5 key), the number of codes shown may be fewer than the actual number of keys.

REPLACING ALL PROGRAMMED IGNITION KEYS

If your customer has lost all of the programmed ignition keys, you need to replace all of the keys and rewrite the ECM/PCM with the HDS. The HDS clears all transponder codes from the memory of the ECM/PCM and stores the transponder codes of the replacement ignition keys.

Preparation

To replace all the keys, you need these items:

- Immobilizer key blank (master or valet) (Refer to the parts catalog for the P/N, and search by VIN for the correct blanks.)
- Key code for the vehicle
- Suitable key cutter
- HDS with the latest software

  NOTE: Make sure the setup and time are correct before you use the HDS. Select the **F12** key in the upper right corner to get the **Set-up Details** screen. Make sure **Market:** is set to **USA**. Select the time display in the lower right corner to get the **Date/Time Properties** pop-up window. Make sure the date and time are correct. For details, refer to the **Honda Diagnostic System (HDS) Setup Instructions** listed under **Tool Information** in ISIS.
- PCM Code (This four-digit code is available on the *i*N Immobilizer Code Inquiry.)

Procedure

1. Use the appropriate key blanks and a suitable key cutter to cut the requested number of ignition keys. Refer to the special tools catalog for available key cutters.
2. Connect the HDS to the 16P data link connector (DLC).
3. Insert a newly cut ignition key into the ignition switch, and turn the switch to ON (II). Turn on the HDS.
4. At the screen prompts, enter the VIN and the odometer reading, then verify the correct date and time.
5. From the **System Selection Menu** screen, select **IMMOBI**.
6. From the **Mode Menu** screen, select **Immobilizer Setup**.
7. From the **Immobilizer Test Mode Menu** screen, select **Add and Delete Keys**.
8. From the **Add and Delete Keys** screen, select **All Keys Lost**.
9. From the **All Keys Lost** screen, select **Begin to register keys**.
10. From the **PCM-Code** screen, enter the PCM Code, then follow the screen prompts. When you are finished, turn the ignition switch to LOCK (0), then turn off and disconnect the HDS.

CLEARING TRANSPONDER CODES OF LOST PROGRAMMED IGNITION KEYS

If your customer has lost one or more (but not all) of the programmed ignition keys, you should rewrite the ECM/PCM with the HDS to prevent the lost keys from starting the engine. The HDS clears the transponder codes from the memory of the ECM/PCM. Then it stores the transponder codes of your customer's remaining programmed ignition keys. This process, in effect, clears the codes of the lost keys, so they could not start the engine.

Preparation

To clear the transponder codes of lost programmed ignition keys, you need these items:

- *All* of your customer's remaining programmed ignition keys (master and valet) for the vehicle. (This includes any master or valet keys with a **T5** stamped on the shank or molded into the grip. These are duplicate keys made with the Ilco Immobilizer Key Code Duplicator.)
- HDS with the latest software

  NOTE: Make sure the setup and time are correct before you use the HDS. Select the **F12** key in the upper right corner to get the **Set-up Details** screen. Make sure **Market:** is set to **USA**. Select the time display in the lower right corner to get the **Date/Time Properties** pop-up window. Make sure the date and time are correct. For details, refer to the **Honda Diagnostic System (HDS) Setup Instructions** listed under **Tool Information** in ISIS.
- 1st Password (Get this five-digit code from the *i*N Immobilizer Code Inquiry.)

Procedure

1. Gather up *all* of your customer's remaining programmed ignition keys (master and valet) for the vehicle. Set aside any T5 keys.
2. Connect the HDS to the 16P data link connector (DLC).
3. Insert a programmed ignition key into the ignition switch, and turn the switch to ON (II). Turn on the HDS.
4. At the screen prompts, enter the VIN and the odometer reading, then verify the correct date and time.
5. From the **System Selection Menu** screen, select **IMMOBI**.
6. From the **Mode Menu** screen, select **Immobilizer Setup**.
7. From the **Immobilizer Test Mode Menu** screen, select **Add and Delete Keys**.
8. From the **Add and Delete Keys** screen, select **Delete Keys**.
9. From the **Delete Keys** screen, select **Begin to Delete Keys**.
10. From the **1st Password** screen, enter the 1st Password, then follow the screen prompts. When you are finished, turn the ignition switch to LOCK (0), then turn off and disconnect the HDS.
11. *T5 keys only:* Start the engine with each of the T5 keys you set aside in step 1.
    - If all of the T5 keys start the engine, the transponder codes are already recognized by the ECM/PCM and the immobilizer procedure is complete.
    - If any of the T5 keys do not start the engine, go to step 12.
12. The HDS accepts only one key of a certain transponder code. If the total number of nonprogrammed T5 keys *plus* the keys you entered is greater than six, use the key code duplicator to recode the additional T5 keys to match an existing transponder code.

    NOTE: The HDS shows you the number of transponder codes stored in the memory of the ECM/PCM. If any of the keys share the same transponder code (as might be the case with a T5 key), the number of codes shown may be fewer than the actual number of keys.

STARTING THE ENGINE WITHOUT A PROGRAMMED IGNITION KEY

If your customer is stranded because he or she has no programmed ignition keys, or a part of the immobilizer system has failed, you can still start the engine using a properly cut key blank and the five-digit Immobilizer Brake Code.

This procedure is suited for situations where your stranded customer either plans to drive the vehicle directly to a Honda dealership for immobilizer system repair, or he or she has the other programmed ignition keys at home and plans to drive there with no side trips.

If your customer has lost his or her programmed ignition keys, but has programmed ignition keys at home, advise him or her to schedule an appointment to have the ECM/PCM rewritten for the remaining ignition keys; this way the transponder codes of the lost keys are cleared from the memory of the ECM/PCM. Refer to **CLEARING TRANSPONDER CODES OF LOST PROGRAMMED IGNITION KEYS**.

If your customer has lost all of the programmed ignition keys, he or she will need to have them replaced and to have the ECM/PCM rewritten. Refer to **REPLACING ALL PROGRAMMED IGNITION KEYS**.

Preparation

To start the engine without a programmed ignition key, you need these items:

- Immobilizer key blank (master or valet) (Refer to the parts catalog for the P/N, and search by VIN for the correct blanks.)
- Key code for the vehicle
- Suitable key cutter
- Immobilizer Brake Code (This code is available on the *i*N Immobilizer Code Inquiry.)

Procedure

1. Use an appropriate key blank and a suitable key cutter to cut a temporary ignition key. Refer to the special tools catalog for available key cutters.
2. Insert the temporary key into the ignition switch.
3. Turn the ignition switch to ON (II).
4. Enter the first digit of the five-digit Immobilizer Brake Code by pressing and releasing the brake pedal that number of times within **30 seconds**. For example, if the first digit is four, press and release the brake pedal four times.
5. Turn the ignition switch to LOCK (0). (This enters the digit into the ECM/PCM.)
6. Turn the ignition switch to ON (II), press and release the brake pedal the appropriate number of times, and turn the ignition switch to LOCK (0) to enter the second, third, fourth, and fifth digits.

   NOTE: When you turn the ignition switch to ON (II), the immobilizer system indicator does not blink but stays on. The immobilizer system indicator stays on even when the ignition switch is turned to LOCK (0).
7. After you enter the fifth digit, and turn the ignition switch to LOCK (0), the immobilizer system indicator blinks three times and then goes off. You can now start the engine with the temporary key.

   NOTE: This procedure is only a temporary fix. When you start the engine with the temporary key, the immobilizer system indicator comes on and stays on while the engine is running. Also, when you turn the ignition switch to LOCK (0), the indicator does not blink five times as it normally would.
8. Start the engine within **10 minutes** or you must repeat this procedure entirely.

REPLACING THE ECM/PCM

If you replace the ECM/PCM, you must program (rewrite) it with the HDS to accept the transponder codes sent from the immobilizer receiver, or the engine will not start. Use the appropriate procedure below to rewrite the ECM/PCM.

Replacing the ECM/PCM in 1998–99 Accord and 1998 Odyssey

Preparation

To replace the ECM/PCM, you need these items:

- Replacement ECM/PCM
- *All* of your customer's programmed ignition keys (master and valet) for the vehicle. (This includes any master or valet keys with a **T5** stamped on the shank or molded into the grip. These are duplicate keys made with the Ilco Immobilizer Key Code Duplicator.)
- HDS with the latest software

  NOTE: Make sure the setup and time are correct before you use the HDS. Select the **F12** key in the upper right corner to get the **Set-up Details** screen. Make sure **Market:** is set to **USA**. Select the time display in the lower right corner to get the **Date/Time Properties** pop-up window. Make sure the date and time are correct. For details, refer to the **Honda Diagnostic System (HDS) Setup Instructions** listed under **Tool Information** in ISIS.
- PCM Code (This four-digit code is available on the *i*N Immobilizer Code Inquiry.)

Procedure

1. Replace the ECM/PCM. Refer to the Fuel and Emissions section of the appropriate service manual, and follow the procedure.
2. Gather *all* of your customer's programmed ignition keys (master and valet) for the vehicle. Set aside any T5 keys.
3. Stick a small piece of masking tape to the grip of each programmed ignition key. Mark them as **A**, **B**, **C**, etc. (The ECM/PCM stores a maximum of six transponder codes.)
4. Connect the HDS to the 16P data link connector (DLC).
5. Insert key **A** into the ignition switch, and turn the switch to ON (II). Turn on the HDS.
6. At the screen prompts, enter the VIN and the odometer reading, then verify the correct date and time.
7. From the **System Selection Menu** screen, select **IMMOBI**.
8. From the **Mode Menu** screen, select **Immobilizer Setup**.
9. From the **Immobilizer Test Mode Menu** screen, select **Replace ECM/PCM**.
10. From the **PCM-Code** screen, enter the PCM Code, then follow the screen prompts. When you are finished, turn the ignition switch to LOCK (0), then turn off and disconnect the HDS.

11. *T5 keys only:* Start the engine with each of the T5 keys you set aside in step 2.
    - If all of the T5 keys start the engine, the transponder codes are already recognized by the ECM/PCM and the immobilizer procedure is complete.
    - If any of the T5 keys do not start the engine, go to step 12.
12. The HDS accepts only one key of a certain transponder code. If the total number of nonprogrammed T5 keys *plus* the keys you entered is greater than six, use the key code duplicator to recode the additional T5 keys to match an existing transponder code.

    NOTE: The HDS shows you the number of transponder codes stored in the memory of the ECM/PCM. If any of the keys share the same transponder code (as might be the case with a T5 key), the number of codes shown may be fewer than the actual number of keys.
13. Do the idle learn procedure:
    - Make sure all electrical items (A/C, audio unit, defogger, lights, etc.) are turned off, then start the engine.
    - Let the engine reach its normal operating temperature (the cooling fans cycle twice).
    - Let the engine idle (throttle fully closed and with all electrical items off) for **10 minutes**.

Replacing the ECM/PCM in 2000–02 Accord, 1999–04 Odyssey, 2003–04 Pilot, 2000–05 S2000, and 2000–06 Insight

NOTE: These models have an enhanced immobilizer system. You can rewrite the new ECM/PCM with the HDS using just *one* programmed ignition key. Make sure you download the transponder codes from the original ECM/PCM to the HDS before replacing it.

Preparation

To replace the ECM/PCM, you need these items:

- *One* programmed ignition key (master, valet, T5) for the vehicle
- HDS with the latest software

  NOTE: Make sure the setup and time are correct before you use the HDS. Select the **F12** key in the upper right corner to get the **Set-up Details** screen. Make sure **Market:** is set to **USA**. Select the time display in the lower right corner to get the **Date/Time Properties** pop-up window. Make sure the date and time are correct. For details, refer to the **Honda Diagnostic System (HDS) Setup Instructions** listed under **Tool Information** in ISIS.
- PCM Code (This four-digit code is available on the *i*N Immobilizer Code Inquiry.)

Procedure

Downloading From the Original ECM/PCM

1. Connect the HDS to the 16P data link connector (DLC).
2. Insert the programmed key into the ignition switch, and turn the ignition switch to ON (II). Turn on the HDS.
3. At the screen prompts, enter the VIN and the odometer reading, then verify the correct date and time.
4. From the **System Selection Menu** screen, select **IMMOBI**.
5. From the **Mode Menu** screen, select **Immobilizer Setup**.
6. From the **Immobilizer Test Mode Menu** screen, select **Replace ECM/PCM using 1 original key**.
7. From the **Replace ECM/PCM using 1 original key** screen, select **Begin to Replace ECM/PCM Using 1 Original Key**.
8. From the **PCM-Code** screen, enter the PCM Code, then follow the screen prompts. (During the procedure, all immobilizer key transponder codes are automatically downloaded from the original ECM/PCM to the HDS. During this download process, make sure the ignition switch remains turned to ON (II), and the HDS stays connected.)
9. When the downloading is complete, turn the ignition switch to LOCK (0).
10. Replace the ECM/PCM. Refer to the Fuel and Emissions section of the appropriate service manual.

Uploading to the New ECM/PCM

11. Turn the ignition switch to ON (II). Keep following the screen prompts on the HDS. (All the transponder codes are automatically uploaded to the new ECM/PCM.)
12. When the uploading is complete, turn the ignition switch to LOCK (0), then turn off and disconnect the HDS.
13. Do the idle learn procedure:
    - Make sure all electrical items (A/C, audio unit, defogger, lights, etc.) are turned off, then start the engine.
    - Let the engine reach its normal operating temperature (the cooling fans cycle twice).
    - Let the engine idle (throttle fully closed and with all electrical items off) for **10 minutes**.

CUSTOMER SITUATION AND REQUIRED ITEMS CHART

This chart lists the customer situations most commonly associated with the immobilizer system along with the items needed to remedy each situation. If you need to repair the system, refer to the Body Electrical section of the appropriate service manual. If you need the HDS, make sure it is loaded with the latest software and that the setup for it is correct before you use it. If you are adding programmed ignition keys, clearing the transponder codes of lost programmed ignition keys, or replacing the ECM/PCM, make sure you get all of your customer's programmed ignition keys (master, valet, and T5 keys), along with the key code for the vehicle (if available).

Customer Situation	Required Items
Your customer has at least one programmed ignition key, but wants an additional key(s).	Ilco Immobilizer key code duplicator with Ilco programmable key blanks (see S/B 99-053 for details). This is the perferred method. Immobilizer key blank (master or valet) (Refer to the parts catalog for the P/N, and search by VIN for the correct blanks.) *2000–02 Accord, 2000–06 Insight, 2000–04 Odyssey, 2003–04 Pilot, 2000–05 S2000:* *One* programmed ignition key (master, valet, T5) *1998–99 Accord, 1998–99 Odyssey:* *All* programmed ignition keys (master, valet, T5) Suitable key cutter and the key code for the vehicle HDS and 1st Password
Your customer wants to clear the transponder code of a lost programmed ignition key and has a least one programmed ignition key.	*All* programmed ignition keys (master, valet, T5) HDS and 1st Password
Your customer has lost all of the programmed ignition keys.	Immobilizer key blank (master or valet) (Refer to the parts catalog for the P/N, and search by VIN for the correct blanks.) Suitable key cutter and the key code for the vehicle HDS and PCM Code
The immobilizer receiver is faulty.	Replacement immobilizer receiver (Refer to the parts catalog for the P/N.) No programming is required.
The ECM/PCM is faulty.	Replacement ECM/PCM (Refer to the parts catalog for the P/N, and the appropriate service manual for the procedure.) *2000–02 Accord, 2000–06 Insight, 2000–04 Odyssey, 2003–04 Pilot, 2000–05 S2000:* *One* programmed ignition key (master, valet, T5) *1998–99 Accord, 1998–99 Odyssey:* *All* programmed ignition keys (master, valet, T5) HDS and PCM code
The ignition key cylinder is faulty or damaged.	If you know how to rekey locks, order the steering lock assembly, and rekey the other locks to match. If you do not know how to rekey locks, order this kit *only* if your customer does not insist on all the locks matching. If your customer insists on all the locks matching, but you do not know how to rekey locks, order the key cylinder set. Refer to the parts catalog for the P/Ns.
One or more of these locks are damaged: door(s), tailgate, glove box, trunk, trunk release handle, or rear seat trunk access.	Replace locks individually if you know how to rekey them; otherwise, order the key cylinder set (Refer to the parts catalog for the P/N).